

Missouri Post-Secondary Opportunities (continued)



Natural Resources/Agriculture



Agriculture/Forestry/Fishing Occupations

Animal Caretaker

Guided Occupational Access Leading to Success

Cares for and grooms animals. Feeds them and checks for signs of injury or illness. May record information about their bloodline, diet, and medical history. May clean, build, and repair pens. May sterilize equipment. May exercise animals and unload and store feed and supplies. May shoe animals' hooves or trim their toenails.

Personal Skills

Personal skills include handling many changing duties as well as making judgments and decisions.

Physical Skills

Physical skills include lifting, carrying, reaching, using hands and fingers, seeing clearly up close, and walking.

Suggested H.S. Coursework & Activities

Animal Science and Technology, Elementary Algebra, Agriculture Science and Technology, Applied Math, Plant and Soil Science Technology, Physical/Earth Science, Economics, Work-Based Training (Co-op/Internship), Future Farmers of America (F.F.A.)

Continuing Education

Vocational/technical and other post-secondary programs are available to provide training for specific types of animal caretakers.

Related Post-Secondary Programs

Agricultural Supplies Retailing & Wholesaling
Equestrian/Equine Studies, Horse Management & Training
Agricultural Supplies & Related Services

Salary Range

Nationally, the middle 50% of all workers earn between \$11,835 and \$17,971.
The middle range of wages for experienced workers in Missouri:
from \$11,814 to \$22,131
Average hourly wage: \$8.47

Missouri Job Outlook

Employment is projected to increase from 1,791 in 1994 to 2,367 in 2005. It is estimated that 91 job openings will be created annually by growth and persons leaving the labor force.

Related Occupations

Animal Groomer & Bather	Aquarium Tank Attendant
Animal Keeper	Farrier
Animal Nursery Worker	Stable Attendant
Animal Trainer	

Missouri Post-Secondary Opportunities

Arcadia Valley Career Tech. Center
Ironton, MO 63650
573-546-7313

Boonslick Technical Education Center
Boonville, MO 65233
660-882-5306

Cape Girardeau Career & Tech. Center
Cape Girardeau, MO 63701
573-334-0826

Carrollton Area Vo-Tech
Carrollton, MO 64633
660-542-0000

Carthage Technical Center
Carthage, MO 64836
417-359-7026

Cass Career Center
Harrisonville, MO 64701
660-380-3253

Central Academy of Dog Grooming
Moberly, MO 65270
660-263-1935

Clinton Technical School
Clinton, MO 64735
660-885-6101

Columbia Area Career Center
Columbia, MO 65203
573-886-2610

Four Rivers Area Vo-Tech
Washington, MO 63090
636-239-7777

Grand River Technical School
Chillicothe, MO 64601
660-646-3414

Hannibal Area Vo-Tech
Hannibal, MO 63401
573-221-4430

Animal Caretaker

Missouri Post-Secondary Opportunities (continued)

Heartland Horseshoeing School

Lamar, MO 64759
417-682-6896

Jefferson College

Hillsboro, MO 63050-2441
636-797-3000

Kansas City Public Schools - Vo-Tech

Kansas City, MO 64111
816-871-6261

Lake Career & Technical Center

Camdenton, MO 65020
573-346-9260

Lebanon Technical Career Center

Lebanon, MO 65536-2451
417-532-5494

Lex La-Ray Technical Center

Lexington, MO 64067
660-259-2264

Maple Woods Community College

Kansas City, MO 64156-1299
816-437-3000

Mineral Area College

Park Hills, MO 63601
573-431-4593

Missouri School of Dog Grooming

Olivette, MO 63132
314-432-3647

Moberly Area Vo-Tech

Moberly, MO 65270
660-269-2690

Nevada Regional Technical Center

Nevada, MO 64772
417-448-2090

North Central Missouri College

Trenton, MO 64683-1824
660-359-3948

Northwest Technical School

Maryville, MO 64468
660-562-3022

Ozark Mountain Technical Center

Mountain Grove, MO 65711
417-926-3119

Park College

Parkville, MO 64152-4358
816-741-2000

Perryville Area Career & Tech. Center

Perryville, MO 63775
573-547-7500

Petropolis, Pet Grooming

Chesterfield, MO 63005
314-537-2322

Rolla Technical Institute

Rolla, MO 65401
573-364-3726

Saline County Career Center

Marshall, MO 65340-2183
660-886-6959

State Fair Area Vo-Tech

Sedalia, MO 65301-2199
660-530-5800, ext. 255

Stephens College

Columbia, MO 65215-0002
573-442-2211

Three Rivers Community College

Poplar Bluff, MO 63901-2393
573-840-9600

Tom Rose School

High Ridge, MO 63049
314-376-4273

Tri-County Technical School

Eldon, MO 65026-1594
573-392-8060

Warrensburg Area Vo-Tech

Warrensburg, MO 64093-2019
660-747-2283

William Woods University

Fulton, MO 65251-1098
573-642-2251



Natural Resources/Agriculture



Agriculture/Forestry/Fishing Occupations

Animal Scientist

Guided Occupational Access Leading to Success

Develops better, more efficient ways of producing and processing meat, poultry, eggs and milk. Studies the genetics, nutrition, reproduction, growth, and development of domestic farm animals. Inspects and grades livestock food products, purchases livestock, or works in technical sales or marketing. Advises agriculture producers on how to upgrade animal housing facilities properly, lower mortality rates, or increase production of animal products, such as milk or eggs.

Personal Skills

Personal skills include handling many changing duties, taking responsibility, making judgments and decisions, and meeting strict standards.

Physical Skills

Physical skills include reaching, using hands and fingers, talking, and seeing clearly up close.

Suggested H.S. Coursework & Activities

Biological Science, Foreign Language, Geometry, Keyboarding, Chemistry, Intermediate Algebra, Advanced Algebra and Trigonometry, Animal Science and Technology, Physiology, Applied Biological Science, Applied Calculus, Applied Chemistry, Scientific Techniques, Future Farmers of America (F.F.A.)

Continuing Education

5 or more years of university including professional and graduate degree. Master's degree is preferred for most employment opportunities. Degrees in related sciences such as biology or chemistry may also be acceptable for some jobs.

Related Post-Secondary Programs

Agriculture/Agricultural Sciences	Animal Sciences
Agricultural Animal Breeding & Genetics	Agricultural Animal Health
Agricultural Animal Nutrition	Agricultural Animal Physiology
Dairy Science	Poultry Science

Salary Range

Nationally, the middle 50% of all workers earn between \$32,240 and \$54,392.
The middle range of wages for experienced workers in Missouri:
from \$38,293 to \$61,610
Average hourly wage: \$22.81

Missouri Job Outlook

Employment is projected to decrease from 259 in 1994 to 251 in 2005. This occupation is declining and it is estimated that less than 10 workers will be needed annually to replace those leaving the labor force.

Related Occupations

Animal Breeder
Dairy Scientist
Poultry Scientist

Missouri Post-Secondary Opportunities

Arcadia Valley Career Tech. Center
Ironton, MO 63650
573-546-7313

Boonslick Technical Education Center
Boonville, MO 65233
660-882-5306

Brookfield Area Career Center
Brookfield, MO 64628
660-258-2682

Cape Girardeau Career & Tech. Center
Cape Girardeau, MO 63701
573-334-0826

Carrollton Area Vo-Tech
Carrollton, MO 64633
660-542-0000

Carthage Technical Center
Carthage, MO 64836
417-359-7026

Cass Career Center
Harrisonville, MO 64701
660-380-3253

Clinton Technical School
Clinton, MO 64735
660-885-6101

Crowder College
Neosho, MO 64850-9160
417-451-3223

Current River Area Vo-Tech
Doniphan, MO 63935
573-996-2915

Gibson Technical Center
Reeds Spring, MO 65737
417-272-3271

Grand River Technical School
Chillicothe, MO 64601
660-646-3414

(continued)

Animal Scientist

Missouri Post-Secondary Opportunities (continued)

Kansas City Public Schools - Vo-Tech

Kansas City, MO 64111
816-871-6261

Kirksville Area Vo-Tech

Kirksville, MO 63501
660-665-2865

Lake Career & Technical Center

Camdenton, MO 65020
573-346-9260

Lamar Area Vo-Tech

Lamar, MO 64759
417-682-3384

Lebanon Technical Career Center

Lebanon, MO 65536-2451
417-532-5494

Lex La-Ray Technical Center

Lexington, MO 64067
660-259-2264

Lincoln University

Jefferson City, MO 65102
573-681-5000

Macon Area Vo-Tech

Macon, MO 63552
660-385-2158

Mineral Area College

Park Hills, MO 63601
573-431-4593

Missouri Western State College

St. Joseph, MO 64507-2294
816-271-4200

Nevada Regional Technical Center

Nevada, MO 64772
417-448-2090

New Madrid County Area Vo-Tech

New Madrid, MO 63869
573-688-2161

North Central Missouri College

Trenton, MO 64683-1824
660-359-3948

Northwest Missouri State University

Maryville, MO 64468-6001
660-562-1212

Northwest Technical School

Maryville, MO 64468
660-562-3022

Ozark Mountain Technical Center

Mountain Grove, MO 65711
417-926-3119

Perryville Area Career & Tech. Center

Perryville, MO 63775
573-547-7500

Rolla Technical Institute

Rolla, MO 65401
573-368-3726

Saline County Career Center

Marshall, MO 65340-2183
660-886-6959

South Central Area Vo-Tech

West Plains, MO 65753
417-256-6152

Southeast Missouri State University

Cape Girardeau, MO 63701-4799
573-651-2000

Southwest Area Career Center

Monett, MO 65708
417-235-7022

Southwest Missouri State University

Springfield, MO 65804-0094
417-836-5000

State Fair Area Vo-Tech

Sedalia, MO 65301-2199
660-530-5800, ext. 255

State Fair Community College

Sedalia, MO 65301-2199
660-530-5800, ext. 217

Tri-County Technical School

Eldon, MO 65026-1594
573-392-8060

Truman State University

Kirksville, MO 63501-4221
660-785-4000

University of Missouri: Columbia

Columbia, MO 65211
573-882-2121

Warrensburg Area Vo-Tech

Warrensburg, MO 64093-2019
660-747-2283



Natural Resources/Agriculture



Agriculture/Forestry/Fishing Occupations

Artificial Breeding Distributor

Manages distributorship concerned with collecting and packaging bull semen and inseminating cows. Hires, trains and supervises technicians. Prepares and issues advertisements. Keeps customers' accounts and breeding records. Orders supplies.

Personal Skills

Personal skills include taking responsibility; dealing with people, and influencing people.

Physical Skills

Physical skills include reaching, using hands and fingers, talking, hearing, and seeing clearly up close.

Suggested H.S. Coursework & Activities

Elementary Algebra, Keyboarding, Physical/Earth Sciences, Animal Science and Technology, Geometry, Life Sciences, Applied Biology and Chemistry, Physical Education, Environmental Science, Speech/Drama/Debate, Farm and Ranch Management, Wildlife Biology, Work-Based Training (Co-op/Internship), Future Farmers of America (F.F.A.)

Continuing Education

1-2 years college, university, or vocational/technical school plus on-the-job training.

Related Post-Secondary Programs

Agricultural Supplies Retailing & Wholesaling
Agricultural Animal Breeding & Genetics

Salary Range

Nationally, the middle 50% of all workers earn between \$15,600 and \$26,000.

Missouri Job Outlook

Employment is projected to increase from 2,767 in 1994 to 3,098 in 2005. It is estimated that 90 job openings will be created annually by growth and persons leaving the labor force.

Related Occupations

Game Breeding Farm Manager

Missouri Post-Secondary Opportunities

Arcadia Valley Career Tech. Center
Ironton, MO 63650
573-546-7313

Cape Girardeau Career & Tech. Center
Cape Girardeau, MO 63701
573-334-0826

Carthage Technical Center
Carthage, MO 64836
417-359-7026

Cass Career Center
Harrisonville, MO 64701
660-380-3253

Clinton Technical School
Clinton, MO 64735
660-885-6101

Columbia Area Career Center
Columbia, MO 65203
573-886-2610

Four Rivers Area Vo-Tech
Washington, MO 63090
636-239-7777

Grand River Technical School
Chillicothe, MO 64601
660-646-3414

Jefferson College
Hillsboro, MO 63050-2441
636-797-3000

Kansas City Public Schools - Vo-Tech
Kansas City, MO 64111
816-871-6261

Maple Woods Community College
Kansas City, MO 64156-1299
816-437-3000

Mineral Area College
Park Hills, MO 63601
573-431-4593

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Guided Occupational Access Leading to Success

Artificial Breeding Distributor

Missouri Post-Secondary Opportunities (continued)

Moberly Area Vo-Tech

Moberly, MO 65270
660-269-2690

Northwest Technical School

Maryville, MO 64468
660-562-3022

Ozark Mountain Technical Center

Mountain Grove, MO 65711
417-926-3119

Perryville Area Career & Tech. Center

Perryville, MO 63775
573-547-7500

Saline County Career Center

Marshall, MO 65340-2183
660-886-6959

Three Rivers Community College

Poplar Bluff, MO 63901-2393
573-840-9600

Tri-County Technical School

Eldon, MO 65026-1594
573-392-8060



Guided Occupational Access Leading to Success

Information from Choices 1999 & 2000 -- consult programs for more information.

Biological/Agricultural Technician

Missouri Post-Secondary Opportunities (continued)

Northwest Missouri State University
Maryville, MO 64468-6001
660-562-1212

Northwest Technical School
Maryville, MO 64468
660-562-3022

Ozark Mountain Technical Center
Mountain Grove, MO 65711
417-926-3119

Perryville Area Career & Tech. Center
Perryville, MO 63775
573-547-7500

Saline County Career Center
Marshall, MO 65340-2183
660-886-6959

Southwest Missouri State University
Springfield, MO 65804-0094
417-836-5000

State Fair Community College
Sedalia, MO 65301-2199
660-530-5800, ext. 217

Three Rivers Community College
Poplar Bluff, MO 63901-2393
573-840-9600

Tri-County Technical School
Eldon, MO 65026-1594
573-392-8060

University of Missouri: Columbia
Columbia, MO 65211
573-882-2121

Warrensburg Area Vo-Tech
Warrensburg, MO 64093-2019
660-747-2283



Natural Resources/Agriculture



Agriculture/Forestry/Fishing Occupations

Farmer

Guided Occupational Access Leading to Success

Operates or manages farms that produce fruits, vegetables, grains, or livestock. May own the farm or manage it for a corporation, cooperative, or other owner. Decides the kinds and amounts of crops to grow and livestock to raise. These decisions are based on market conditions, weather, and the size and location of the farm. Buys farm equipment and supplies, and hires and directs farm workers. May set up and operate farm machinery, such as trucks, tractors, and harvesters. May arrange to sell the farm's products.

Personal Skills

Personal skills include handling many changing duties, taking responsibility, and making judgments and decisions.

Physical Skills

Physical skills include lifting, carrying, reaching, using hands, seeing clearly up close, judging depth and distance, and walking.

Suggested H.S. Coursework & Activities

Agricultural Mechanics, Animal Science & Technology, Elem. Algebra, Physical Education, Ag. Machinery Technology, Ag. Science & Technology, Applied Math, Plant & Soil Science Technology, Ag. Production Technology, Ag. Services & Supplies, Physical/Earth Sciences, Environmental Science, Farm & Ranch Management, Work-Based Training (Co-op/Internship), Future Farmers of America (F.F.A.)

Continuing Education

2-4 years of vocational/technical school, community college, or university plus on-the-job training. For those without farming experience, a bachelor's degree in agriculture is necessary.

Related Post-Secondary Programs

Agricultural Business, Management & Operations; Farm & Ranch Management; Ag. Production Workers & Managers; Ag. Animal Husbandry & Production Management; Crop Production Operations & Management; Ag. Business & Production; Agricultural Sciences; Agronomy & Crop Science; Animal Sciences

Salary Range

Nationally, the middle 50% of all workers earn between \$13,520 and \$24,086.
The middle range of wages for experienced workers in Missouri:
from \$11,710 to \$20,197
Average hourly wage: \$8.67

Missouri Job Outlook

Employment is projected to increase from 2,767 in 1994 to 3,098 in 2005. It is estimated that 90 job openings will be created annually by growth and persons leaving the labor force.

Related Occupations

Beekeeper
Cash Grain Farmer
Diversified Crops Farmer
Field Crop Farmer
Tree Fruit & Nut Crop Farmer
Vegetable Farmer

Missouri Post-Secondary Opportunities

Arcadia Valley Career Tech. Center
Ironton, MO 63650
573-546-7313

Boonslick Technical Education Center
Boonville, MO 65233
660-882-5306

Brookfield Area Career Center
Brookfield, MO 64628
660-258-2682

Cape Girardeau Career & Tech. Center
Cape Girardeau, MO 63701
573-334-0826

Carrollton Area Vo-Tech
Carrollton, MO 64633
660-542-0000

Carthage Technical Center
Carthage, MO 64836
417-359-7026

Cass Career Center
Harrisonville, MO 64701
660-380-3253

Central Missouri State University
Warrensburg, MO 64093
660-543-4111

Clinton Technical School
Clinton, MO 64735
660-885-6101

College of the Ozarks
Point Lookout, MO 65726
417-334-6411

Columbia Area Career Center
Columbia, MO 65203
573-886-2610

Crowder College
Neosho, MO 64850-9160
417-451-3223

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Farmer

Missouri Post-Secondary Opportunities (continued)

Current River Area Vo-Tech
Doniphan, MO 63935
573-996-2915

Four Rivers Area Vo-Tech
Washington, MO 63090
636-239-7777

Gibson Technical Center
Reeds Spring, MO 65737
417-272-3271

Grand River Technical School
Chillicothe, MO 64601
660-646-3414

Kansas City Public Schools - Vo-Tech
Kansas City, MO 64111
816-871-6261

Kirksville Area Vo-Tech
Kirksville, MO 63501
660-665-2865

Lake Career & Technical Center
Camdenton, MO 65020
573-346-9260

Lamar Area Vo-Tech
Lamar, MO 64759
417-682-3384

Lebanon Technical Career Center
Lebanon, MO 65536-2451
417-532-5494

Lex La-Ray Technical Center
Lexington, MO 64067
660-259-2264

Lincoln University
Jefferson City, MO 65102
573-681-5000

Macon Area Vo-Tech
Macon, MO 63552
660-385-2158

Maple Woods Community College
Kansas City, MO 64156-1299
816-437-3000

Mineral Area College
Park Hills, MO 63601
573-431-4593

Missouri Valley College
Marshall, MO 65340-3197
660-831-4000

Missouri Western State College
St. Joseph, MO 64507-2294
816-271-4200

Moberly Area Vo-Tech
Moberly, MO 65270
660-269-2690

Nevada Regional Technical Center
Nevada, MO 64772
417-448-2090

New Madrid County Area Vo-Tech
New Madrid, MO 63869
573-688-2161

North Central Missouri College
Trenton, MO 64683-1824
660-359-3948

Northwest Missouri State University
Maryville, MO 64468-6001
660-562-1212

Northwest Technical School
Maryville, MO 64468
660-562-3022

Ozark Mountain Technical Center
Mountain Grove, MO 65711
417-926-3119

Pemiscot County Vo-Tech
Hayti, MO 63851
573-359-2601

Perryville Area Career & Tech. Center
Perryville, MO 63775
573-547-7500

Rolla Technical Institute
Rolla, MO 65401
573-364-3726

Saline County Career Center
Marshall, MO 65340-2183
660-886-6959

South Central Area Vo-Tech
West Plains, MO 65775
417-256-6152

Southeast Missouri State University
Cape Girardeau, MO 63701-4799
573-651-2000

Southwest Area Career Center
Monett, MO 65708
417-235-7022

Southwest Missouri State University
Springfield, MO 65804-0094
417-836-5000

State Fair Area Vo-Tech
Sedalia, MO 65301-2199
660-530-5800, ext. 255

State Fair Community College
Sedalia, MO 65301-2199
660-530-5800, ext. 217

Three Rivers Community College
Poplar Bluff, MO 63901-2393
573-840-9600

Tri-County Technical School
Eldon, MO 65026-1594
573-392-8060

Truman State University
Kirksville, MO 63501-4221
660-785-4000

University of Missouri: Columbia
Columbia, MO 65211
573-882-2121

Warrensburg Area Vo-Tech
Warrensburg, MO 64093-2019
660-747-2283



Natural Resources/Agriculture



Agriculture/Forestry/Fishing Occupations

Fish & Game Warden

Patrols assigned areas to prevent game law violations. Investigates reports of damage to crops and property by wildlife. Travels through the area by car, boat, airplane, horse, or on foot. Watches people taking fish and wild game. Compiles biological data.

Personal Skills

Personal skills include dealing with people, working under stress, and making judgments and decisions.

Physical Skills

Physical activities include lifting, reaching, using hands, talking, hearing, seeing clearly up close and at a distance, walking, and running.

Suggested H.S. Coursework & Activities

Elementary Algebra, Keyboarding, Physical Education, Physical/Earth Sciences, Animal Science and Technology, Geometry, Life Sciences, Environmental Science, Social Studies, Law and Courts, Speech/Drama/Debate, Zoology, Law Enforcement, Sociology/Psychology, Wildlife Biology

Continuing Education

1-2 years community college, university or vocational/technical school.

Related Post-Secondary Programs

Natural Resources Law Enforcement & Protective Services
Fishing & Fisheries Sciences & Management
Wildlife & Wildlands Management
Law Enforcement/Police Science
Military (Enlisted)

Salary Range

Nationally, the middle 50% of all workers earn between \$26,354 and \$41,122.
The middle range of wages for experienced workers in Missouri:
from \$13,541 to \$26,520
Average hourly wage: \$11.86

Missouri Job Outlook

Stable

Related Occupations

Wildlife Control Agent
Base Wildlife Specialist (Military)

Missouri Post-Secondary Opportunities

Arcadia Valley Career Tech. Center
Ironton, MO 63650
573-546-7313

Cape Girardeau Career & Tech. Center
Cape Girardeau, MO 63701
573-334-0826

East Central College
Union, MO 63084-0529
636-583-5193

Grand River Technical School
Chillicothe, MO 64601
660-646-3414

Jefferson College
Hillsboro, MO 63050-2441
636-797-3000

Longview Community College
Lee's Summit, MO 64081-2105
816-672-2000

Mineral Area College
Park Hills, MO 63601
573-431-4593

Missouri Southern State College
Joplin, MO 64801-1595
417-625-9300

Missouri Western State College
St. Joseph, MO 64507-2294
816-271-4200

Northwest Missouri State University
Maryville, MO 64468-6001
660-562-1212

Penn Valley Community College
Kansas City, MO 64111
816-759-4000

Perryville Area Career & Tech. Center
Perryville, MO 63775
573-547-7500

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Guided Occupational Access Leading to Success

Fish and Game Warden

Missouri Post-Secondary Opportunities (continued)

Saline County Career Center

Marshall, MO 65340-2183
660-886-6959

St. Louis Community College:

Florissant Valley
St. Louis, MO 63135-1499
314-595-4200

St. Louis Community College:

Forest Park
St. Louis, MO 63110-1316
314-644-9100

St. Louis Community College:

Meramec
Kirkwood, MO 63122-5720
314-984-7500

Southwest Missouri State University

Springfield, MO 65804-0094
417-836-5000

State Fair Area Vo-Tech

Sedalia, MO 65301-2199
660-530-5800, ext. 255

Three Rivers Community College

Poplar Bluff, MO 63901-2393
573-840-9600

Tri-County Technical School

Eldon, MO 65026-1594
573-392-8060

The following military branches offer training opportunities for this occupation. Please refer to the resource pages at the front of this book for recruitment contact information:

U.S. Marine Corps



Natural Resources/Agriculture



Agriculture/Forestry/Fishing Occupations

Forestry Worker

Guided Occupational Access Leading to Success

Performs a variety of different tasks to reforest and conserve timberlands and maintains forest facilities such as roads and campsites. Plants new tree seedlings to reforest timberland. Removes diseased or undesirable trees. Clears away brush and debris from camp trails. Some clean kitchens and rest rooms at recreational facilities and campgrounds. Some work on tree farms, where they plant, cultivate, and harvest many different kinds of trees. Others classify trees into specified categories by examining the tree's limbs and foliage for color and growth pattern. Others gather products from the woodlands such as decorative greens, tree cones and barks.

Personal Skills

Personal skills include repeating set tasks and making judgments and decisions.

Physical Skills

Physical activities include lifting, carrying, pushing or pulling, climbing, stooping, reaching, using hands, hearing, seeing clearly up close, judging depth and distance, and walking.

Suggested H.S. Coursework & Activities

Animal Science and Technology, Elementary Algebra, Physical Education, Agricultural Machinery Technology, Ag. Science and Technology, Applied Math, Plant and Soil Science Technology, Social Studies, Environmental Science, Physical/Earth Sciences, Ag. Services and Supplies, Economics, Forestry Products and Processes, Work-Based Training (Co-op/Internship), Future Farmers of America (F.F.A.)

Continuing Education

High school plus on-the-job training. Vocational/technical programs are available for this occupation.

Related Post-Secondary Programs

Natural Resources Conservation Military (Enlisted)
Forest Harvesting & Production Tech./Technician
Forestry
Forestry Sciences
Wood Science & Pulp/Paper Technology

Salary Range

Nationally, the middle 50% of all workers earn between \$16,682 and \$31,429.
The middle range of wages for experienced workers in Missouri:
from \$21,757 to \$35,568
Average hourly wage: \$13.95

Missouri Job Outlook

Employment is projected to increase from 796 in 1994 to 891 in 2004. It is estimated that 26 job openings will be created annually by growth and persons leaving the labor force.

Related Occupations

Christmas Tree Farm Worker Tree Planter
Cruiser Base Wildlife Specialist (Military)
Forester Aide
Seedling Puller
Seedling Sorter

Missouri Post-Secondary Opportunities

Arcadia Valley Career Tech. Center
Ironton, MO 63650
573-546-7313

Boonslick Technical Education Center
Boonville, MO 65233
660-882-5306

Cape Girardeau Career & Tech. Center
Cape Girardeau, MO 63701
573-334-0826

Carrollton Area Vo-Tech
Carrollton, MO 64633
660-542-0000

Cass Career Center
Harrisonville, MO 64701
660-380-3253

Clinton Technical School
Clinton, MO 64735
660-885-6101

Columbia College
Columbia, MO 65216-0002
573-875-8700

Current River Area Vo-Tech
Doniphan, MO 63935
573-996-2915

East Central College
Union, MO 63084-0529
636-583-5193

Hannibal Area Vo-Tech
Hannibal, MO 63401
573-221-4430

Kirksville Area Vo-Tech
Kirksville, MO 63501
660-665-2865

Lake Career & Technical Center
Camdenton, MO 65020
573-346-9260

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Forestry Worker

Missouri Post-Secondary Opportunities (continued)

Lex La-Ray Vo-Tech Center

Lexington, MO 64067
660-259-2264

Mineral Area College

Park Hills, MO 63601
573-431-4593

Nevada Regional Technical Center

Nevada, MO 64772
417-448-2090

Northwest Technical School

Maryville, MO 64468
660-562-3022

Ozarks Technical Community College

Springfield, MO 65802
417-895-7000

Perryville Area Career & Tech. Center

Perryville, MO 63775
573-547-7500

Rolla Technical Institute

Rolla, MO 65401
573-364-3726

Saline County Career Center

Marshall, MO 65340-2183
660-886-6959

South Central Area Vo-Tech

West Plains, MO 65775
417-256-6152

Southwest Area Career Center

Monett, MO 65708
417-235-7022

State Fair Area Vo-Tech

Sedalia, MO 65301-2199
660-530-5800, ext. 255

Tri-County Technical School

Eldon, MO 65026-1594
573-392-8060

University of Missouri: Columbia

Columbia, MO 65211
573-882-2121

Warrensburg Area Vo-Tech

Warrensburg, MO 64093-2019
660-747-2283

The following military branches offer training opportunities for this occupation. Please refer to the resource pages at the front of this book for recruitment contact information:

U.S. Marine Corps



Natural Resources/Agriculture



Agriculture/Forestry/Fishing Occupations

Gardener/Groundskeeper

Takes care of lawns, trees, flowers and shrubs in such places as parks, golf courses and cemeteries. Also cares for buildings and equipment. Duties may range from planting trees and mowing grass to digging ditches and picking up litter.

Personal Skills

Personal skills include handling many changing duties, making judgments and decisions, and meeting strict standards.

Physical Skills

Physical skills include lifting, carrying, pushing and pulling, stooping, reaching, using hands and fingers, seeing clearly up close, and walking.

Suggested H.S. Coursework & Activities

Animal Science and Technology, Art, Elementary Algebra, Physical Education, Agricultural Science and Technology, Applied Math, Environmental Science, Plant and Soil Sciences Technology, Horticulture/Greenhouse Management, Economics, Forestry Products and Processes, Work-Based Training (Co-op/Internship), Future Farmers of America (F.F.A.)

Continuing Education

High school plus on-the-job training. Vocational/technical programs are available.

Related Post-Secondary Programs

Ornamental Horticulture Operations & Management
Greenhouse Operations & Management
Landscaping Operations & Management
Turf Management
Horticulture Services Operations & Management

Salary Range

Nationally, the middle 50% of all workers earn between \$13,499 and \$21,486.

Missouri Job Outlook

Employment is projected to increase from 7,490 in 1994 to 8,932 in 2005. It is estimated that 294 job openings will be created annually by growth and persons leaving the labor force.

Related Occupations

Cemetery Worker
Garden Worker
Greenskeeper
Industrial Commercial Greenskeeper
Landscape Gardener

Landscape Specialist
Lawn Service Worker

Missouri Post-Secondary Opportunities

Arcadia Valley Career Tech. Center
Ironton, MO 63650
573-546-7313

Boonslick Technical Education Center
Boonville, MO 65233
660-882-5306

Brookfield Area Career Center
Brookfield, MO 64628
660-258-2682

Cape Girardeau Career & Tech. Center
Cape Girardeau, MO 63701
573-334-0826

Carrollton Area Vo-Tech
Carrollton, MO 64633
660-542-0000

Carthage Technical Center
Carthage, MO 64836
417-359-7026

Cass Career Center
Harrisonville, MO 64701
660-380-3253

Clinton Technical School
Clinton, MO 64735
660-885-6101

Columbia Area Career Center
Columbia, MO 65203
573-886-2610

Current River Area Vo-Tech
Doniphan, MO 63935
573-996-2915

East Central College
Union, MO 63084-0529
636-583-5193

Four Rivers Area Vo-Tech
Washington, MO 63090
636-239-7777

(continued)

Gardener/Groundskeeper

Missouri Post-Secondary Opportunities (continued)

Grand River Technical School
Chillicothe, MO 64601
660-646-3414

Kansas City Public Schools - Vo-Tech
Kansas City, MO 64111
816-871-6261

Kirksville Area Vo-Tech
Kirksville, MO 63501
660-665-2865

Lake Career & Technical Center
Camdenton, MO 65020
573-346-9260

Lebanon Technical Career Center
Lebanon, MO 65536-2451
417-532-5494

Lex La-Ray Technical Center
Lexington, MO 64067
660-259-2264

Linn State Technical College
Linn, MO 65051-9606
573-897-3603

Longview Community College
Lee's Summit, MO 64081-2105
816-672-2000

Macon Area Vo-Tech
Macon, MO 63552
660-385-2158

Mineral Area College
Park Hills, MO 63601
573-431-4593

Missouri Job Corps
Jefferson City, MO 65101
573-751-3817

Moberly Area Vo-Tech
Moberly, MO 65270
660-269-2690

Nevada Regional Technical Center
Nevada, MO 64772-1298
417-448-2090

New Madrid County Area Vo-Tech
New Madrid, MO 63869
573-688-2161

Northwest Technical School
Maryville, MO 64468
660-562-3022

Ozark Mountain Technical Center
Mountain Grove, MO 65711
417-926-3119

Ozarks Technical Community College
Springfield, MO 65802
417-895-7000

Perryville Area Career & Tech. Center
Perryville, MO 63775
573-547-7500

St. Louis Community College:
Meramec
Kirkwood MO 63122-5720
314-984-7500

Saline County Career Center
Marshall, MO 65340-2183
660-886-6959

South Central Area Vo-Tech
West Plains, MO 65775
417-256-6152

Southwest Area Career Center
Monett, MO 65708
417-235-7022

Special School District:
St. Louis County
Town & Country, MO 63131
314-569-8275

State Fair Area Vo-Tech
Sedalia, MO 65301-2199
660-530-5800, ext. 255

State Fair Community College
Sedalia, MO 65301-2199
660-530-5800, ext. 217

Tri-County Technical School
Eldon, MO 65026-1594
573-392-8060

Warrensburg Area Vo-Tech
Warrensburg, MO 64093
660-747-2283



Natural Resources/Agriculture



Agriculture/Forestry/Fishing Occupations

Landscape Gardener

Guided Occupational Access Leading to Success

Plans and executes small landscaping operations. Maintains grounds and landscape for private businesses or residences. Prepares terrain and applies fertilizers, seeds, and sodding to lawns. Transplants trees and shrubs.

Personal Skills

Personal skills include handling many changing duties, taking responsibility, and making judgments and decisions.

Physical Skills

Physical skills include lifting, carrying, pushing or pulling, stooping, kneeling, reaching, using hands and fingers, judging depth and distance, and walking.

Suggested H.S. Coursework & Activities

Animal Sciences and Technology, Art, Elementary Algebra, Physical Education, Agricultural Science and Technology, Applied Math, Plant and Soil Science Technology, Physical/Earth Sciences, Ag. Business and Management, Ag. Services and Supplies, Economics, Horticulture/Greenhouse Management, Work-Based Training (Co-op/Internship), Future Farmers of America (F.F.A.)

Continuing Education

High school plus on-the-job training. Community colleges and vocational/technical schools offer courses in agronomy, horticulture, and botany. There are many 2-year and 4-year programs in landscape management, interiorscape, and ornamental horticulture.

Related Post-Secondary Programs

Horticulture Services Operations & Management
Ornamental Horticulture Operations & Management
Greenhouse Operations & Management
Landscaping Operations & Management
Turf Management

Salary Range

Nationally, the middle 50% of all workers earn between \$13,499 and \$21,486.
The middle range of wages for experienced workers in Missouri:
from \$13,728 to \$22,838
Average hourly wage: \$9.60

Missouri Job Outlook

Employment is projected to increase from 7,490 in 1994 to 8,932 in 2005. It is estimated that 294 job openings will be created annually by growth and persons leaving the labor force.

Related Occupations

Flower Picker	Plant Care Worker
Horticultural Specialty Grower	Yard Worker
Horticultural Worker	
Landscape Laborer	

Missouri Post-Secondary Opportunities

Arcadia Valley Career Tech. Center
Ironton, MO 63650
573-546-7313

Boonslick Technical Education Center
Boonville, MO 65233
660-882-5306

Brookfield Area Career Center
Brookfield, MO 64628
660-258-2682

Cape Girardeau Career & Tech. Center
Cape Girardeau, MO 63701
573-334-0826

Carrollton Area Vo-Tech
Carrollton, MO 64633
660-542-0000

Carthage Technical Center
Carthage, MO 64836
417-359-7026

Cass Career Center
Harrisonville, MO 64701
660-380-3253

Clinton Technical School
Clinton, MO 64735
660-885-6101

Columbia Area Career Center
Columbia, MO 65203
573-886-2610

Current River Area Vo-Tech
Doniphan, MO 63935
573-996-2915

East Central College
Union, MO 63084-0529
636-583-5193

Four Rivers Area Vo-Tech
Washington, MO 63090
636-239-7777

Landscape Gardener

Missouri Post-Secondary Opportunities (continued)

Grand River Technical School
Chillicothe, MO 64601
660-646-3414

Kansas City Public Schools - Vo-Tech
Kansas City, MO 64111
816-871-6261

Kirksville Area Vo-Tech
Kirksville, MO 63501
660-665-2865

Lake Career & Technical Center
Camdenton, MO 65020
573-346-9260

Lebanon Technical Career Center
Lebanon, MO 65536-2451
417-532-5494

Lewis & Clark Career Center
St. Charles, MO 63301
636-946-7726

Lex La-Ray Technical Center
Lexington, MO 64067
660-259-2264

Longview Community College
Lee's Summit, MO 64081-2105
816-672-2000

Macon Area Vo-Tech
Macon, MO 63552
660-385-2158

Mineral Area College
Park Hills, MO 63601
573-431-4593

Missouri Job Corps
Jefferson City, MO 65101
573-751-3817

Moberly Area Vo-Tech
Moberly, MO 65270
660-269-2690

Nevada Regional Technical Center
Nevada, MO 64728
417-448-2090

New Madrid County Area Vo-Tech
New Madrid, MO 63869
573-688-2161

Northwest Technical School
Maryville, MO 64468
660-562-3022

Ozark Mountain Technical Center
Mountain Grove, MO 65711
417-926-3119

Ozarks Technical Community College
Springfield, MO 65802
417-895-7000

Perryville Area Career & Tech. Center
Perryville, MO 63775
573-547-7500

Rolla Technical Institute
Rolla, MO 65401
573-364-3726

St. Louis Community College:
Meramec
Kirkwood, MO 63122-5720
314-984-7500

Saline County Career Center
Marshall, MO 65340-2183
660-886-6959

South Central Area Vo-Tech
West Plains, MO 65775
417-256-6152

Southwest Area Career Center
Monett, MO 65708
417-235-7022

Special School District:
St. Louis County
Town & Country, MO 63131
314-569-8275

State Fair Area Vo-Tech
Sedalia, MO 65301-2199
660-530-5800, ext. 255

State Fair Community College
Sedalia, MO 65301-2199
660-530-5800, ext. 217

Tri-County Technical School
Eldon, MO 65026-1594
573-392-8060

Warrensburg Area Vo-Tech
Warrensburg, MO 64093-2019
660-747-2283



Natural Resources/Agriculture



Agriculture/Forestry/Fishing Occupations

Nursery Manager

Manages farms or nurseries where trees, shrubs and ornamental plants are grown. Decides the types and number of plants to grow and buys the necessary materials and equipment. Hires and assigns duties to workers. Directs office activities.

Personal Skills

Personal skills include handling many changing duties, taking responsibility, dealing with people, and making judgments and decisions.

Physical Skills

Physical skills include lifting, carrying, reaching, using hands and fingers, talking, hearing, seeing clearly up close, seeing clearly at a distance, walking, and seeing color differences.

Suggested H.S. Coursework & Activities

Animal Science and Technology, Art, Elementary Algebra, Ag. Science and Technology, Applied Math, Plant and Soil Science Technology Chemistry, Horticulture/Greenhouse Management, Physical/Earth Sciences, Advanced Algebra and Trigonometry, Business Management, Sociology/Psychology, Work-Based Training (Co-op/Internship), Future Farmers of America (F.F.A.)

Continuing Education

1-2 years community college, university or vocational/technical school.

Related Post-Secondary Programs

Horticulture Services Operations & Management Plant Sciences
Ornamental Horticulture Operations & Management Horticulture Science
Greenhouse Operations & Management
Nursery Operations & Management

Salary Range

Nationally, the middle 50% of all workers earn between \$17,555 and \$34,278.
The middle range of wages for experienced workers in Missouri:
from \$28,995 to \$34,632
Average hourly wage: \$15.25

Missouri Job Outlook

Employment is projected to increase from 559 in 1994 to 876 in 2005. It is estimated that 41 job openings will be created annually by growth and persons leaving the labor force.

Related Occupations

Christmas Tree Farm Manager
Horticulture Superintendent
Landscaping Manager
Lawn Service Manager

Missouri Post-Secondary Opportunities

Arcadia Valley Career Tech. Center
Ironton, MO 63650
573-546-7313

Boonslick Technical Education Center
Boonville, MO 65233
660-882-5306

Brookfield Area Career Center
Brookfield, MO 64628
660-258-2682

Cape Girardeau Career & Tech. Center
Cape Girardeau, MO 63701
573-334-0826

Carrollton Area Vo-Tech
Carrollton, MO 64633
660-542-0000

Carthage Technical Center
Carthage, MO 64836
417-359-7026

Cass Career Center
Harrisonville, MO 64701
660-380-3253

Clinton Technical School
Clinton, MO 64735
660-885-6101

Columbia Area Career Center
Columbia, MO 65203
573-886-2610

Current River Area Vo-Tech
Doniphan, MO 63935
573-996-2915

East Central College
Union, MO 63084-0529
636-583-5193

Four Rivers Area Vo-Tech
Washington, MO 63090
636-239-7777

Guided Occupational Access Leading to Success

Nursery Manager

Missouri Post-Secondary Opportunities (continued)

Grand River Technical School

Chillicothe, MO 64601
660-646-3414

Kansas City Public Schools - Vo-Tech

Kansas City, MO 64111
816-871-6261

Kirksville Area Vo-Tech

Kirksville, MO 63501
660-665-2865

Lake Career & Technical Center

Camdenton, MO 65020
573-346-9260

Lex La-Ray Technical Center

Lexington, MO 64067
660-259-2264

Macon Area Vo-Tech

Macon, MO 63552
660-385-2158

Mineral Area College

Park Hills, MO 63601
573-431-4593

Missouri Job Corps

Jefferson City, MO 65101
573-751-3817

Moberly Area Vo-Tech

Moberly, MO 65270
660-269-2690

Nevada Regional Technical Center

Nevada, MO 64772
417-448-2090

New Madrid County Area Vo-Tech

New Madrid, MO 63869
573-688-2161

Northwest Missouri State University

Maryville, MO 64468-6001
660-562-1212

Northwest Technical School

Maryville, MO 64468
660-562-3022

Ozark Mountain Technical Center

Mountain Grove, MO 65711
417-926-3119

Ozarks Technical Community College

Springfield, MO 65802
417-895-7000

Perryville Area Career & Tech. Center

Perryville, MO 63775
573-547-7500

St. Louis Community College:

Meramec
Kirkwood, MO 63122-5720
314-984-7500

Saline County Career Center

Marshall, MO 65340-2183
660-886-6959

South Central Area Vo-Tech

West Plains, MO 657753
417-256-6152

Southwest Area Career Center

Monett, MO 65708
417-235-7022

Southwest Missouri State University

Springfield, MO 65804-0094
417-836-5000

Special School District:

St. Louis County
Town and Country, MO 63131
314-569-8275

State Fair Area Vo-Tech

Sedalia, MO 65301-2199
660-530-5800, ext. 255

State Fair Community College

Sedalia, MO 65301-2199
660-530-5800, ext. 217

Tri-County Technical School

Eldon, MO 65026-1594
573-392-8060

University of Missouri: Columbia

Columbia, MO 65211
573-882-2121

Warrensburg Area Vo-Tech

Warrensburg, MO 64093-2019
660-747-2283



Natural Resources/Agriculture



Agriculture/Forestry/Fishing Occupations

Nursery Worker

Guided Occupational Access Leading to Success

Plants, cultivates, harvests, and cares for trees, shrubs, and flowering plants. Prepares the soil. Plants, weeds and waters plants. Harvests, packs, transports, and stores plant crops. May operate farm machinery. May trap and poison plant pests and tag plants for identification. Also may help cut and saw tree limbs. Works in nurseries, greenhouses, tree farms and other places where plants are grown for sale.

Personal Skills

Personal skills include repeating set tasks, making judgments and decisions, and meeting strict standards.

Physical Skills

Physical skills include lifting, carrying, pushing or pulling, stooping, reaching, using hands, judging depth and distance, and walking.

Suggested H.S. Coursework & Activities

Animal Science and Technology, Art, Elementary Algebra, Agricultural Science and Technology, Applied Math, Plant and Soil Science Technology, Horticulture/Greenhouse Management, Advanced Algebra and Trigonometry, Economics, Work-Based Training (Co-op/Internship), Future Farmers of America (F.F.A.)

Continuing Education

High school plus on-the-job training. Vocational/technical and community college programs are available.

Related Post-Secondary Programs

Horticulture Services Operations & Management
Ornamental Horticulture Operations & Management
Greenhouse Operations & Management
Nursery Operations & Management

Salary Range

Nationally, the middle 50% of all workers earn between \$13,499 and \$21,486.
The middle range of wages for experienced workers in Missouri:
from \$10,400 to \$15,600
Average hourly wage: \$6.55

Missouri Job Outlook

Employment is projected to increase from 1,388 in 1994 to 2,062 in 2005. It is estimated that 91 job openings will be created annually by growth and persons leaving the labor force.

Related Occupations

Budder
Horticultural Worker
Plant Care Worker

Missouri Post-Secondary Opportunities

Arcadia Valley Career Tech. Center
Ironton, MO 63650
573-546-7313

Boonslick Technical Education Center
Boonville, MO 65233
660-882-5306

Brookfield Area Career Center
Brookfield, MO 64628
660-258-2682

Cape Girardeau Career & Tech. Center
Cape Girardeau, MO 63701
573-334-0826

Carrollton Area Vo-Tech
Carrollton, MO 64633
660-542-0000

Carthage Technical Center
Carthage, MO 64836
417-359-7026

Cass Career Center
Harrisonville, MO 64701
660-380-3253

Clinton Technical School
Clinton, MO 64735
660-885-6101

Columbia Area Career Center
Columbia, MO 65203
573-886-2610

Current River Area Vo-Tech
Doniphan, MO 63935
573-996-2915

East Central College
Union, MO 63084-0529
636-583-5193

Four Rivers Area Vo-Tech
Washington, MO 63090
636-239-7777

Nursery Worker

Missouri Post-Secondary Opportunities (continued)

Grand River Technical School

Chillicothe, MO 64601
660-646-3414

Hannibal Area Vo-Tech

Hannibal, MO 63401
573-221-4430

Kansas City Public Schools - Vo-Tech

Kansas City, MO 64111
816-871-6261

Kirksville Area Vo-Tech

Kirksville, MO 63501
660-665-2865

Lake Career & Technical Center

Camdenton, MO 65020
573-346-9260

Lebanon Technical Career Center

Lebanon, MO 65536-2451
417-532-5494

Lex La-Ray Technical Center

Lexington, MO 64067
660-259-2264

Macon Area Vo-Tech

Macon, MO 63552
660-385-2158

Mineral Area College

Park Hills, MO 63601
573-431-4593

Missouri Job Corps

Jefferson City, MO 65101
573-751-3817

Moberly Area Vo-Tech

Moberly, MO 65270
660-269-2690

Nevada Regional Technical Center

Nevada, MO 64772
417-448-2090

New Madrid County Area Vo-Tech

New Madrid, MO 63869
573-688-2161

Northwest Technical School

Maryville, MO 64468
660-562-3022

Ozark Mountain Technical Center

Mountain Grove, MO 65711
417-926-3119

Ozarks Technical Community College

Springfield, MO 65802
417-895-7000

Perryville Area Career & Tech. Center

Perryville, MO 63775
573-547-7500

St. Louis Community College:

Meramec
Kirkwood, MO 63122-5720
314-984-7500

Saline County Career Center

Marshall, MO 65340-2183
660-886-6959

South Central Area Vo-Tech

West Plains, MO 65775
417-256-6152

Southwest Area Career Center

Monett, MO 65708
417-235-7022

Special School District:

St. Louis County
Town & Country, MO 63131
314-569-8275

State Fair Area Vo-Tech

Sedalia, MO 65301-2199
660-530-5800, ext. 255

State Fair Community College

Sedalia, MO 65301-2199
660-530-5800, ext. 217

Tri-County Technical School

Eldon, MO 65026-1594
573-392-8060

Warrensburg Area Vo-Tech

Warrensburg, MO 64093-2019
660-747-2283



Natural Resources/Agriculture



Agriculture/Forestry/Fishing Occupations

Plant Scientist

Investigates field crop problems and develops new growth methods to improve yield, production, and quality of crops. Suggests ways to control diseases, pests, and weeds. Conducts soil analysis and plant breeding.

Personal Skills

Personal skills include taking responsibility as well as making judgments and decisions.

Physical Skills

Physical activities include reaching, using hands and fingers, using fingertips to feel, talking, seeing clearly up close, judging depth and distance, focusing eyes, and seeing color differences.

Suggested H.S. Coursework & Activities

Ag. Mechanics, Animal Science & Technology, Elementary Algebra, Physical Education, Ag. Machinery Technology, Ag. Science & Technology, Ag. Structures & Facilities, Applied Math, Plant & Soil Science Technology, Ag. Production Tech., Ag. Services & Supplies, Physical/Earth Sciences, Economics, Environmental Science, Farm & Ranch Management, Work-Based Training (Co-op Internship), Future Farmers of America (F.F.A.)

Continuing Education

Five or more university, including professional and graduate degree. Training requirements for agricultural scientists depend on the specialty and the type of work performed. More intensive research positions require a graduate degree. Degrees in related sciences such as biology or chemistry may also be acceptable for some jobs.

Related Post-Secondary Programs

Plant Sciences
Agronomy & Crop Science
Plant Breeding & Genetics
Plant Protection (Pest Management)

Salary Range

Nationally, the middle 50% of all workers earn between \$32,240 and \$54,392.
The middle range of wages for experienced workers in Missouri:
from \$38,293 to \$61,610
Average hourly wage: \$22.81

Missouri Job Outlook

Employment is projected to decrease from 259 in 1994 to 251 in 2005. This occupation is declining and it is estimated that less than 10 workers will be needed annually to replace those leaving the labor force.

Related Occupations

Agronomist
Apiculturist
Entomologist
Horticulturist
Plant Breeder

Missouri Post-Secondary Opportunities

Boonslick Technical Education Center
Boonville, MO 65233
660-882-5306

Brookfield Area Career Center
Brookfield, MO 64628
660-258-2682

Cape Girardeau Career & Tech. Center
Cape Girardeau, MO 63701
573-334-0826

Carrollton Area Vo-Tech
Carrollton, MO 64633
660-542-0000

Clinton Technical Center
Clinton, MO 64735
660-885-6101

Davis H. Hart Mexico Area Vo-Tech
Mexico, MO 65265
573-581-5684

East Central College
Union, MO 63084-0529
636-583-5193

Four Rivers Area Vo-Tech
Washington, MO 63090
636-239-7777

Grand River Technical School
Chillicothe, MO 64601
660-646-3414

Lake Career & Technical Center
Camdenton, MO 65020
573-346-9260

Lebanon Technical Career Center
Lebanon, MO 65536-2451
417-532-5494

Lex La-Ray Technical Center
Lexington, MO 64067
660-259-2264

Guided Occupational Access Leading to Success

(continued)

Plant Scientist

Missouri Post-Secondary Opportunities (continued)

Linn State Technical College

Linn, MO 65051-9606
573-897-3603

Mineral Area College

Park Hills, MO 63601
573-431-4593

Nevada Regional Technical Center

Nevada, MO 64772
417-448-2090

Northwest Missouri State University

Maryville, MO 64468-6001
660-562-1212

Perryville Area Career & Tech. Center

Perryville, MO 63775
573-547-7500

Rolla Technical Institute

Rolla, MO 65401
573-364-3726

Saline County Career Center

Marshall, MO 65340-2183
660-886-6959

Southwest Missouri State University

Springfield, MO 65804-0094
417-836-5000

State Fair Area Vo-Tech

Sedalia, MO 65301-2199
660-530-5800, ext. 255

State Fair Community College

Sedalia, MO 65301-2199
660-530-5800, ext. 217

Tri-County Technical School

Eldon, MO 65026-1594
573-392-8060

University of Missouri: Columbia

Columbia, MO 65211
573-882-2121

Warrensburg Area Vo-Tech

Warrensburg, MO 64093-2019
660-747-2283



Natural Resources/Agriculture



Life Scientists

Biochemist

Guided Occupational Access Leading to Success

Conducts research to determine the effect of foods, drugs, and serums on the tissues and organs of animals and human beings. Analyzes the effect of hormones, vitamins, and enzymes on body functions. Studies the chemistry of living processes such as cell formation and digestion.

Personal Skills

Personal skills include making judgments and decisions as well as meeting strict standards.

Physical Skills

Physical skills include reaching, using hands and fingers, talking, seeing clearly up close, judging depth and distance, focusing eyes, and seeing color differences.

Suggested H.S. Coursework & Activities

Computer Science/Studies, Foreign Language, Geometry, Keyboarding, Language Arts, Physical/Earth Sciences, Biological Science, Consumer Health, Health Occupations, Intermediate Algebra, Advanced Algebra and Trigonometry, Applied Biology, Chemistry, Applied Calculus, Applied Chemistry, Physics, Scientific Techniques, Sociology, Health Occupations Students of America (H.O.S.A.)

Continuing Education

Five or more years university, including professional and graduate degree. Depending on the level of research performed, a master's degree is sufficient. Jobs in collegiate teaching, independent research, and administrative positions, a Ph.D. is necessary.

Related Post-Secondary Programs

Biology
Biochemistry
Biotechnology Research
Pharmacology, Human & Animal
Medical Biochemistry

Salary Range

Nationally, the middle 50% of all workers earn between \$33,717 and \$63,190.
The middle range of wages for experienced workers in Missouri:
from \$36,109 to \$72,072
Average hourly wage: \$25.84

Missouri Job Outlook

Employment is projected to increase from 1,008 in 1994 to 1,218 in 2005. It is estimated that 41 job openings will be created annually by growth and persons leaving the labor force.

Related Occupations

Biochemistry Technologist

Missouri Post-Secondary Opportunities

Avila College
Kansas City, MO 64145-1698
816-942-8400

Central Methodist College
Fayette, MO 65248-1198
660-248-3391

Central Missouri State University
Warrensburg, MO 64093
660-543-4111

College of the Ozarks
Point Lookout, MO 65726
417-334-6411

Crowder College
Neosho, MO 64850-9160
417-451-3223

Culver-Stockton College
Canton, MO 63435-1299
573-231-6000

Drury College
Springfield, MO 65802-3791
417-873-7879

Evangel University
Springfield, MO 65802-2191
417-865-2811

Fontbonne College
St. Louis, MO 63105-3098
314-862-3456

Hannibal-LaGrange College
Hannibal, MO 63401-1999
573-221-3675

Lincoln University
Jefferson City, MO 65102
573-684-5000

Lindenwood University
St. Charles, MO 63301-1695
636-949-2000

Biochemist

Missouri Post-Secondary Opportunities (continued)

Longview Community College
Lee's Summit, MO 64081-2105
816-672-2000

Maple Woods Community College
Kansas City, MO 64156-1299
816-437-3000

Maryville University
St. Louis, MO 63141-7299
314-529-9300

Missouri Baptist College
St. Louis, MO 63141-8698
314-434-1115

Missouri Southern State College
Joplin, MO 64801-1595
417-625-9300

Missouri Valley College
Marshall, MO 65340-3197
660-831-4000

Missouri Western State College
St. Joseph, MO 64507-2294
816-271-4200

Northwest Missouri State University
Maryville, MO 64468-6001
660-562-1212

Park College
Parkville, MO 64152-4358
816-741-2000

Penn Valley Community College
Kansas City, MO 64111
816-759-4000

Rockhurst University
Kansas City, MO 64110-2561
816-501-4000

St. Louis University
St. Louis, MO 63103-2097
314-977-2222

Southeast Missouri State University
Cape Girardeau, MO 63701-4799
573-651-2000

Southwest Baptist University
Bolivar, MO 65613-2597
417-328-5281

Southwest Missouri State University
Springfield, MO 65804-0094
417-836-5000

State Fair Community College
Sedalia, MO 65301-2199
660-530-2800, ext. 217

Stephens College
Columbia, MO 65215-0002
573-442-2211

Truman State University
Kirksville, MO 63501-4221
660-785-4000

University of Missouri: Columbia
Columbia, MO 65211
573-882-2121

University of Missouri: Kansas City
Kansas City, MO 64110-2499
816-235-1000

University of Missouri: Rolla
Rolla, MO 65409-0910
573-341-4111

University of Missouri: St. Louis
St. Louis, MO 63121-4499
314-516-5000

Washington University
St. Louis, MO 63130-4899
314-935-5000

Webster University
St. Louis, MO 63119-3194
314-968-9600

Westminster College
Fulton, MO 65251-1299
573-642-3361

William Jewell College
Liberty, MO 64068-1843
816-781-7700

William Woods University
Fulton, MO 65251-1098
573-642-2251



Natural Resources/Agriculture



Life Scientists

Biochemistry Technologist

Studies the chemical and hormonal makeup of body fluids to supply information used in finding causes and treatment of diseases. Tests body samples such as urine, blood, spinal fluid, and gastric juices for the presence of chemicals.

Personal Skills

Personal skills include handling many changing duties, making judgments and decisions, and meeting strict standards.

Physical Skills

Physical skills include reaching, using hands and fingers, and seeing clearly up close.

Suggested H.S. Coursework & Activities

Elementary Algebra, Keyboarding, Physical Education, Biological Science, Consumer Health, Geometry, Business Information Applications/Technology, Health Occupations, Intermediate Algebra, Career and Life Management Studies, Chemistry, Sociology/Psychology, Health Occupations Students of America (H.O.S.A.)

Continuing Education

Undergraduate degree in medical technology or one of the life sciences. A combination of formal specialized training and on-the-job training is helpful.

Related Post-Secondary Programs

Medical Laboratory Technician

Salary Range

Nationally, the middle 50% of all workers earn between \$20,800 and \$39,000.

Missouri Job Outlook

Stable

Related Occupations

Biochemist

Missouri Post-Secondary Opportunities

Al-Med Academy

St. Louis, MO 63074
314-739-4450

Avila College

Kansas City, MO 64145-1698
816-942-8400

Maryville University

St. Louis, MO 63141-7299
314-529-9300

St. Louis Community College:

Forest Park
St. Louis, MO 63110-1316
314-644-9100

State Fair Community College

Sedalia, MO 65301-2199
660-530-2800, ext. 217

Three Rivers Community College

Poplar Bluff, MO 63901-2393
573-840-9600

Guided Occupational Access Leading to Success

Missouri Post-Secondary Opportunities (continued)



Natural Resources/Agriculture



Life Scientists

Biological Scientist

Conducts research to gain information about living things to solve problems in medicine, industry, and agriculture. Often uses complex research techniques and lab equipment. May do consulting work, teach, or write technical journals. May test and inspect foods, drugs, and other products.

Personal Skills

Personal skills include making judgments and decisions as well as meeting strict standards.

Physical Skills

Physical activities include reaching, using hands and fingers, talking, seeing clearly up close, judging depth and distance, and focusing eyes.

Suggested H.S. Coursework & Activities

Art, Biological Science, Foreign Language, Geometry, Keyboarding, Chemistry, Intermediate Algebra, Physical Education, Word Processing, Language Arts, Advanced Algebra and Trigonometry, Genetics, Physiology, Anatomy, Applied Biological Science, Applied Calculus, Applied Chemistry, Scientific Techniques, Young Engineers and Scientists (Y. E. S.)

Continuing Education

5 or more years of university including the professional and graduate degree. Depending on the level of research performed, a master's degree is sufficient. Jobs in collegiate teaching, independent research, and administrative positions, a Ph.D. is necessary.

Related Post-Secondary Programs

Biology, Biochemistry, Biophysics, Botany, Plant Pathology, Plant Physiology, Cell Biology, Molecular Biology, Microbiology/Bacteriology, Marine/Aquatic Biology, Neuroscience, Toxicology, Genetics, Biotechnology Research, Virology, Zoology, Physiology, Biological/Life Sciences, Military (Officer)

Salary Range

Nationally, the middle 50% of all workers earn between \$26,000 and \$52,000.
The middle range of wages for experienced workers in Missouri:
from \$15,600 to \$62,400
Average hourly wage: \$14.13

Missouri Job Outlook

Employment is projected to increase from 1,008 in 1994 to 1,218 in 2005. It is estimated that 41 job openings will be created annually by growth and persons leaving the labor force.

Related Occupations

Biophysicist	Life Scientist (Military)
Cytologist	
Microbiologist	
Mycologist	
Physiologist	

Missouri Post-Secondary Opportunities

Avila College
Kansas City, MO 64145-1698
816-842-8400

Central Methodist College
Fayette, MO 65248-1198
660-248-3391

Central Missouri State University
Warrensburg, MO 64093
660-543-4111

College of the Ozarks
Point Lookout, MO 65726
417-334-6411

Crowder College
Neosho, MO 64850-9160
417-451-3223

Culver-Stockton College
Canton, MO 63435-1299
573-231-6000

Drury College
Springfield, MO 65802-3791
417-873-7879

Evangel University
Springfield, MO 65802-2191
417-865-2811

Fontbonne College
St. Louis, MO 63105-3098
314-862-3456

Lincoln University
Jefferson City, MO 65102
573-681-5000

Lindenwood University
St. Charles, MO 63301-1695
636-949-2000

Longview Community College
Lee's Summit, MO 64081-2105
816-672-2000

Guided Occupational Access Leading to Success

(continued)

Biological Scientist

Missouri Post-Secondary Opportunities (continued)

Maple Woods Community College
Kansas City, MO 64156-1299
816-437-0100

Maryville University
St. Louis, MO 63141-7299
314-529-9300

Missouri Baptist College
St. Louis, MO 63141-8698
314-434-1115

Missouri Southern State College
Joplin, MO 64801-1595
417-625-9300

Missouri Valley College
Marshall, MO 65340-3197
660-831-4000

Missouri Western State College
St. Joseph, MO 64507-2294
816-271-4200

Northwest Missouri State University
Maryville, MO 64468-6001
660-562-1212

Park College
Parkville, MO 64152-4358
816-741-2000

Penn Valley Community College
Kansas City, MO 64111
816-759-4000

Rockhurst University
Kansas City, MO 64110-2561
816-501-4000

St. Charles County Comm. College
St. Peters, MO 63376
314-922-8273

St. Louis University
St. Louis, MO 63103-2097
314-977-2222

Southeast Missouri State University
Cape Girardeau, MO 63701-4799
573-651-2000

Southwest Baptist University
Bolivar, MO 65613-2597
417-328-5281

Southwest Missouri State University
Springfield, MO 65804-0094
417-836-5000

State Fair Community College
Sedalia, MO 65301-2199
660-530-2800, ext. 217

Stephens College
Columbia, MO 65215-0002
573-442-2211

Truman State University
Kirksville, MO 63501-4221
660-785-4000

University of Missouri: Columbia
Columbia, MO 65211
573-882-2121

University of Missouri: Kansas City
Kansas City, MO 64110-2499
816-235-1000

University of Missouri: Rolla
Rolla, MO 65409-0910
573-341-4111

University of Missouri: St. Louis
St. Louis, MO 63121-4499
314-516-5000

Washington University
St. Louis, MO 63130-4899
314-935-5000

Webster University
St. Louis, MO 63119-3194
314-968-9600

Wentworth Military Academy
Nevada, MO 64772
417-259-2221

Westminster College
Fulton, MO 65251-1299
314-642-3361

William Jewell College
Liberty, MO 64068-1843
816-781-7700

William Woods University
Fulton, MO 65251-1098
573-642-2251

The following military branches offer training opportunities for this occupation. Please refer to the resource pages at the front of this book for recruitment contact information:

U.S. Army
U.S. Navy



Natural Resources/Agriculture



Life Scientists

Botanist

Guided Occupational Access Leading to Success

Studies the development and life process of plants for applications in the fields of agronomy, forestry, horticulture, and pharmacology. Studies reproduction, and the internal and external systems of plants using scientific equipment. Studies the effects of rainfall, temperature, soil and elevation on plant growth. Identifies and classifies plants. May conduct environmental studies. Prepares reports.

Personal Skills

Personal skills include taking responsibility, making judgments and decisions, and meeting strict standards.

Physical Skills

Physical skills include talking, seeing clearly up close, judging depth and distance, focusing eyes, and seeing color differences.

Suggested H.S. Coursework & Activities

Art, Computer Science/Studies, Foreign Language, Intermediate Algebra, Keyboarding, Physical/Earth Sciences, Advanced Algebra and Trigonometry, Biological Science, Consumer Health, Applied Biology, Chemistry, Environmental Science, Applied Calculus, Applied Chemistry, Horticulture/Greenhouse Management, Physics, Sociology/Psychology

Continuing Education

5 or more years of university including the professional and graduate degree. Depending on the level of research performed, a master's degree is sufficient. Jobs in collegiate teaching, independent research, and administrative positions, a Ph.D. is necessary.

Related Post-Secondary Programs

Botany
Plant Pathology
Plant Physiology
Plant & Animal Genetics

Salary Range

Nationally, the middle 50% of all workers earn between \$33,717 and \$63,190.
The middle range of wages for experienced workers in Missouri:
from \$36,109 to \$72,072
Average hourly wage: \$25.84

Missouri Job Outlook

Employment is projected to increase from 1,008 in 1994 to 1,218 in 2005. It is estimated that 41 job openings will be created annually by growth and persons leaving the labor force.

Related Occupations

Mycologist
Plant Pathologist

Missouri Post-Secondary Opportunities

Boonslick Technical Education Center
Boonville, MO 65233
660-882-5306

Carrollton Area Vo-Tech
Carrollton, MO 64633
660-542-0000

Clinton Technical School
Clinton, MO 64735
660-885-6101

Lake Career & Technical Center
Camdenton, MO 65020
573-346-9260

Lebanon Technical Career Center
Lebanon, MO 65536-2451
417-532-5494

Lex La-Ray Technical Center
Lexington, MO 64067
660-259-2264

Nevada Regional Technical Center
Nevada, MO 64772
417-448-2090

Northwest Missouri State University
Maryville, MO 64468-6001
660-562-1212

St. Charles County Comm. College
St. Peters, MO 63376
314-922-8273

State Fair Area Vo-Tech
Sedalia, MO 65301-2199
660-530-5800, ext. 255

State Fair Community College
Sedalia, MO 65301-2199
660-530-2800, ext. 217

Tri-County Technical School
Eldon, MO 65026-1594
573-392-8060

(continued)

Botanist

Missouri Post-Secondary Opportunities (continued)

University of Missouri: Columbia
Columbia, MO 65211
573-882-2121

Warrensburg Area Vo-Tech
Warrensburg, MO 64093-2019
660-747-2283

Washington University
St. Louis, MO 63130-4899
314-935-5000



Natural Resources/Agriculture



Life Scientists

Environmental Scientist

Conducts studies to develop methods of controlling the sources of pollution. Uses engineering and scientific knowledge to identify sources of pollution. Prepares charts and graphs to establish standards and to develop ways to control pollution.

Personal Skills

Personal skills include taking responsibility, making judgments and decisions, and meeting strict standards.

Physical Skills

Physical skills include reaching, using hands and fingers, and seeing clearly up close.

Suggested H.S. Coursework & Activities

Biological Science, Foreign Language, Geometry, Language Arts, Technical Education Transportation Power and Energy, Chemistry, Consumer Health, Intermediate Algebra, Word Processing, Advanced Algebra and Trigonometry, Botany, Applied Biology, Applied Chemistry, Art, Scientific Techniques

Continuing Education

Undergraduate degree.

Related Post-Secondary Programs

Engineering Mechanics
Environmental Engineering
Environmental Health Engineering
Military (Officer)

Salary Range

Nationally, the middle 50% of all workers earn between \$34,757 and \$70,886.
The middle range of wages for experienced workers in Missouri:
from \$40,685 to \$72,238
Average hourly wage: \$25.40

Missouri Job Outlook

Employment is projected to increase from 788 in 1994 to 953 in 2005. It is estimated that 32 job openings will be created annually by growth and persons leaving the labor force.

Related Occupations

Environmental Analyst
Pollution Control Engineer
Environmental Health & Safety Specialist (Military)

Missouri Post-Secondary Opportunities

State Fair Community College
Sedalia, MO 65301-2199
660-530-2800, ext. 217

University of Missouri: Rolla
Rolla, MO 65409-0910
573-341-4111

The following military branches offer training opportunities for this occupation. Please refer to the resource pages at the front of this book for recruitment contact information:

U.S. Army
U.S. Coast Guard
U.S. Marine Corps
U.S. Navy

Missouri Post-Secondary Opportunities (continued)



Natural Resources/Agriculture



Life Scientists

Food Scientist

Guided Occupational Access Leading to Success

Looks for ways to improve crop yield and quality with less labor, control pests and weeds more safely and effectively, and conserve soil and water. Helps meet consumer demand for food products that are healthful, safe, palatable, and convenient. Develops new or better ways of preserving, processing, packaging, storing, and delivering foods. Some engage in basic research.

Personal Skills

Personal skills include taking responsibility, making judgments and decisions, and meeting strict standards.

Physical Skills

Physical activities include reaching, using hands and fingers, talking, and seeing clearly up close.

Suggested H.S. Coursework & Activities

Career and Life Management Studies, Physical Education, Elementary Algebra, Applied Math, Biological Science, Business Information Applications/Technology, Consumer Health, Nutrition and Food, Chemistry, Occupational Food Service, Work-Based Training (Co-op/Internship), Family, Career and Community Leaders of America (F.C.C.L.A.)

Continuing Education

Five or more years of university including professional and graduate degree. Training requirements depend on the specialty and the type of work performed. For basic research, a master's or Ph.D. degree is needed. For some jobs in applied research, a bachelor's degree is sufficient.

Related Post-Secondary Programs

Food Sciences & Technology

Salary Range

Nationally, the middle 50% of all workers earn between \$32,240 and \$54,392. The middle range of wages for experienced workers in Missouri:
from \$38,293 to \$61,610
Average hourly wage: \$22.81

Missouri Job Outlook

Employment is projected to decrease from 259 in 1994 to 251 in 2005. It is estimated that less than 10 job openings will be created annually by growth and persons leaving the labor force.

Related Occupations

Entomologist
Food Technologist

Missouri Post-Secondary Opportunities

Boonslick Technical Education Center
Boonville, MO 65233
660-882-5306

Brookfield Area Career Center
Brookfield, MO 64628
660-258-2682

Carrollton Area Vo-Tech
Carrollton, MO 64633
660-542-0000

Clinton Technical School
Clinton, MO 64735
660-885-6101

Crowder College
Neosho, MO 64850-9160
417-451-3223

Grand River Technical School
Chillicothe, MO 64601
660-646-3414

Lake Career & Technical Center
Camdenton, MO 65020
573-346-9260

Lebanon Technical Career Center
Lebanon, MO 65536-2451
417-532-5494

Lex La-Ray Technical Center
Lexington, MO 64067
660-259-2264

Lincoln University
Jefferson City, MO 65102
573-681-5000

Missouri Western State College
St. Joseph, MO 64507-2294
816-271-4200

Nevada Regional Technical Center
Nevada, MO 64772
417-448-2090

Food Scientist

Missouri Post-Secondary Opportunities (continued)

Northwest Missouri State University
Maryville, MO 64468-6001
660-562-1212

Saline County Career Center
Marshall, MO 65340-2183
660-886-6959

Southeast Missouri State University
Cape Girardeau, MO 63701-4799
573-651-2000

Southwest Missouri State University
Springfield, MO 65804-0094
417-836-5000

State Fair Area Vo-Tech
Sedalia, MO 65301-2199
660-530-5800, ext. 255

State Fair Community College
Sedalia, MO 65301-2199
660-530-5800, ext. 217

Tri-County Technical School
Eldon, MO 65026-1594
573-392-8060

Truman State University
Kirksville, MO 63501-4221
660-785-4000

University of Missouri: Columbia
Columbia, MO 65211
573-882-2121



Natural Resources/Agriculture



Life Scientists

Forester/Conservation Scientist

Guided Occupational Access Leading to Success

Studies forest conditions and plans ways to be sure forest resources meet present and future public needs. Develops ways to protect resources against fire, insects, disease, floods, and erosion. Performs research to discover scientific principles and facts needed for good forest management. Seeks to develop new and better methods and tools for conserving resources. May spend a good deal of time working with farmers, ranchers, and other land managers developing conservation programs. Some teach at colleges and universities.

Personal Skills

Personal skills include taking responsibility, making judgments and decisions, and meeting strict standards.

Physical Skills

Physical skills include reaching, using hands, talking, hearing, seeing clearly up close, and walking.

Suggested H.S. Coursework & Activities

Animal Science and Technology, Elementary Algebra, Physical Education, Ag. Machinery Technology, Applied Math, Consumer Health, Plant and Soil Science Technology, Environmental Science, Physical/Earth Sciences, Ag. Services and Supplies, Economics, Forestry Products and Processes, Work-Based Training (Co-op/Internship)

Continuing Education

Undergraduate degree with further specialization. A Ph.D. is preferred for those interested in doing specialized research or teaching.

Related Post-Secondary Programs

Range Science & Management	Forest Products Technology/Technician
Forestry	Wood Science & Pulp/Paper Technology
Forestry Sciences	Conservation & Renewable Natural Resources
Forest Management	
Natural Resources Conservation/Mgmt/Policy/Protective Services	

Salary Range

Nationally, the middle 50% of all workers earn between \$32,843 and \$49,317.
The middle range of wages for experienced workers in Missouri:
from \$37,419 to \$51,667
Average hourly wage: \$21.94

Missouri Job Outlook

Employment is projected to increase from 569 in 1994 to 690 in 2005. It is estimated that 23 job openings will be created annually by growth and persons leaving the labor force.

Related Occupations

Forest Ecologist
Park Naturalist
Range Manager
Silviculturist
Wood Technologist

Missouri Post-Secondary Opportunities

Boonslick Technical Education Center
Boonville, MO 65233
660-882-5306

Carrollton Area Vo-Tech
Carrollton, MO 64633-1997
660-542-0000

Cass Career Center
Harrisonville, MO 64701
660-380-3253

Clinton Technical School
Clinton, MO 64735
660-885-6101

East Central College
Union, MO 63084-0529
636-583-5193

Kirkville Area Vo-Tech
Kirkville, MO 63501
660-665-2865

Lake Career & Technical Center
Camdenton, MO 65020
573-346-9260

Lex La-Ray Technical Center
Lexington, MO 64067
660-259-2264

Nevada Regional Technical Center
Nevada, MO 64772
417-448-2090

Northwest Missouri State University
Maryville, MO 64468-6001
660-562-1212

Ozarks Technical Community College
Springfield, MO 65802
417-895-7000

Saline County Career Center
Marshall, MO 65340-2183
660-886-6959

Forester/Conservation Scientist

Missouri Post-Secondary Opportunities (continued)

State Fair Area Vo-Tech

Sedalia, MO 65301-2199

660-530-5800, ext. 255

State Fair Community College

Sedalia, MO 65301-2199

660-530-2800, ext. 217

University of Missouri: Columbia

Columbia, MO 65211

573-882-2121

Warrensburg Area Vo-Tech

Warrensburg, MO 64093-2019

660-747-2283



Natural Resources/Agriculture



Life Scientists

Geneticist

Studies inheritance and variation of characteristics in forms of life. Determines what causes specific inherited traits. Devises methods for altering or producing new traits. May perform genetic counseling.

Personal Skills

Personal skills include handling many changing duties, taking responsibility, making judgments and decisions, and meeting strict standards.

Physical Skills

Physical skills include reaching, using hands and fingers, and seeing clearly up close.

Suggested H.S. Coursework & Activities

Computer Science, Foreign Language, Geometry, Keyboarding, Physical/Earth Sciences, Biology, Genetics, Intermediate Algebra, Advanced Algebra and Trigonometry, Applied Biology, Chemistry, Applied Calculus, Applied Chemistry, Human Biology, Physics, Sociology/Psychology, Health Occupations Students of America (H.O.S.A.), Young Engineers and Scientists (Y.E.S)

Continuing Education

Five or more years university including professional and graduate degrees. Depending on the level of research performed, a master's degree is sufficient. Jobs in collegiate teaching, independent research, and administrative positions, a Ph.D. is necessary.

Related Post-Secondary Programs

Biochemistry
Cell Biology
Molecular Biology
Plant & Animal Genetics
Biotechnology Research

Evolutionary Biology
Medical Genetics

Salary Range

Nationally, the middle 50% of all workers earn between \$33,717 and \$63,190.
The middle range of wages for experienced workers in Missouri:
from \$36,109 to \$72,072
Average hourly wage: \$25.84

Missouri Job Outlook

Employment is projected to increase from 1,008 in 1994 to 1,218 in 2005. It is estimated that 41 job openings will be created annually by growth and persons leaving the labor force.

Related Occupations

Genetic Counselor

Missouri Post-Secondary Opportunities

Grand River Technical School

Chillicothe, MO 64601
660-646-3414

Hannibal-LaGrange College

Hannibal, MO 63401-1999
573-221-3675

Northwest Missouri State University

Maryville, MO 64468-6001
660-562-1212

St. Louis University

St. Louis, MO 63103-2097
314-977-2222

Saline County Career Center

Marshall, MO 65340-2183
660-886-6959

State Fair Area Vo-Tech

Sedalia, MO 65301-2199
660-530-5800, ext. 255

State Fair Community College

Sedalia, MO 65301-2199
660-530-2800, ext. 217

University of Missouri: Columbia

Columbia, MO 65211
573-882-2121

Washington University

St. Louis, MO 63130-4899
314-935-5000

Guided Occupational Access Leading to Success

Missouri Post-Secondary Opportunities (continued)



Natural Resources/Agriculture



Life Scientists

Marine Biologist

Studies plants and animals native to salt water and their relationship to their environment. Examines the effect of physical conditions such as temperature and light on marine animal and plant life. Conducts research and prepares reports outlining the findings. May specialize in raising different kinds of seafood or in the study of one kind of environmental condition or animal.

Personal Skills

Personal skills include handling many changing duties, taking responsibility, making judgments and decisions, and meeting strict standards.

Physical Skills

Physical skills include reaching, using hands and fingers, talking, seeing clearly up close, judging depth and distance, focusing eyes, and seeing color differences.

Suggested H.S. Coursework & Activities

Computer Science, Foreign Language, Geometry, Keyboarding, Physical/Earth Sciences, Biology, Genetics, Intermediate Algebra, Advanced Algebra and Trigonometry, Applied Biology, Chemistry, Applied Calculus, Applied Chemistry, Human Biology, Physics, Sociology/Psychology

Continuing Education

Five or more years university including professional and graduate degrees. Depending on the level of research performed, a master's degree is sufficient. Jobs in collegiate teaching, independent research, and administrative positions, a Ph.D. is necessary.

Related Post-Secondary Programs

Marine/Aquatic Biology

Salary Range

Nationally, the middle 50% of all workers earn between \$26,000 and \$52,000.

Missouri Job Outlook

In the U.S., employment is expected to increase. Outlook information for Missouri is unavailable.

Related Occupations

Missouri Post-Secondary Opportunities

Clinton Technical School

Clinton, MO 64735
660-885-6101

State Fair Area Vo-Tech

Sedalia, MO 65301-2199
660-530-5800, ext. 255

Guided Occupational Access Leading to Success

Missouri Post-Secondary Opportunities (continued)



Natural Resources/Agriculture



Life Scientists

Microbiology Technologist

Grows, identifies, and tests bacteria, viruses, algae, and fungi in a laboratory. Studies how bacteria affect their host. Examines human or animal body material for evidence of disease or parasites. Reports on the findings.

Personal Skills

Personal skills include making judgments and decisions as well as meeting strict standards.

Physical Skills

Physical skills include using hands and fingers, talking, hearing, seeing clearly up close, focusing eyes, and seeing color differences.

Suggested H.S. Coursework & Activities

Elementary Algebra, Keyboarding, Applied Math, Art, Biological Science, Consumer Health, Physical Education, Business Information Applications/Technology, Health Occupations, Intermediate Algebra, Chemistry, Sociology/Psychology, Health Occupations Students of America (H.O.S.A.)

Continuing Education

Undergraduate degree in medical technology or one of the life sciences. A combination of specialized and on-the-job training is helpful.

Related Post-Secondary Programs

Microbiology/Bacteriology
Medical Laboratory Technician

Salary Range

Nationally, the middle 50% of all workers earn between \$20,800 and \$39,000.

Missouri Job Outlook

Employment is projected to increase from 3,134 in 1994 to 3,414 in 2005. It is estimated that 93 job openings will be created annually by growth and persons leaving the labor force.

Related Occupations

Microbiologist

Missouri Post-Secondary Opportunities

Al-Med Academy
St. Louis, MO 63074
314-739-4450

Avila College
Kansas City, MO 64145-1698
816-942-8400

Clinton Technical School
Clinton, MO 64735
660-885-6101

Maryville University
St. Louis, MO 63141-7299
314-529-9300

St. Louis Community College:
Forest Park
St. Louis, MO 63110-1316
314-644-9100

St. Louis University
St. Louis, MO 63103-2097
314-977-2222

Three Rivers Community College
Poplar Bluff, MO 63901-2393
573-840-9600

University of Missouri: Columbia
Columbia, MO 65211
573-882-2121

Washington University
St. Louis, MO 63130-4899
314-935-5000

Guided Occupational Access Leading to Success

Missouri Post-Secondary Opportunities (continued)



Natural Resources/Agriculture



Life Scientists

Soil Conservationist

Guided Occupational Access Leading to Success

Provides technical assistance to farmers and others concerned with the conservation of soil, water, and related natural resources. Develops programs designed to get the most productive use of land without damaging it. Visits areas with erosion problems, finds the source of the problem, and helps landowners and managers develop management practices to combat it.

Personal Skills

Personal skills include taking responsibility, dealing with people, and making judgments and decisions.

Physical Skills

Physical skills include using hands and fingers, using fingertips to feel, seeing clearly up close, and walking.

Suggested H.S. Coursework & Activities

Animal Science and Technology, Elementary Algebra, Language Arts, Physical Education, Environmental Scientist, Foreign Language, Intermediate Algebra, Advanced Algebra and Trigonometry, Ag. Services and Supplies, Economics, Forestry Products and Processes, Work-Based Training (Co-op/Internship), Future Farmers of America (F.F.A.)

Continuing Education

Undergraduate degree with further specialization.

Related Post-Secondary Programs

Range Science & Management
Soil Sciences
Natural Resources Conservation
Military (Enlisted)

Salary Range

Nationally, the middle 50% of all workers earn between \$32,843 and \$49,317.
The middle range of wages for experienced workers in Missouri:
from \$37,419 to \$51,667
Average hourly wage: \$21.94

Missouri Job Outlook

Employment is projected to increase from 569 in 1994 to 690 in 2005. It is estimated that 23 job openings will be created annually by growth and persons leaving the labor force.

Related Occupations

Soil Conservation Technician
Soil Scientist

Missouri Post-Secondary Opportunities

Boonslick Technical Education Center
Boonville, MO 65233
660-882-5306

Carrollton Area Vo-Tech
Carrollton, MO 64633
660-542-0000

Cass Career Center
Harrisonville, MO 64701
660-380-3253

Clinton Technical School
Clinton, MO 64735
660-885-6101

Grand River Technical School
Chillicothe, MO 64601
660-646-3414

Kirkville Area Vo-Tech
Kirkville, MO 63501
660-665-2865

Lake Career & Technical Center
Camdenton, MO 65020
573-346-9260

Lebanon Technical Career Center
Lebanon, MO 65536-2451
417-532-5494

Lex La-Ray Technical Center
Lexington, MO 64067
660-259-2264

Nevada Regional Technical Center
Nevada, MO 64772
417-448-2090

Northwest Technical School
Maryville, MO 64468
660-562-3022

Ozarks Technical Community College
Springfield, MO 65802
417-895-7000

Soil Conservationist

Missouri Post-Secondary Opportunities (continued)

Saline County Career Center

Marshall, MO 65340-2183
660-886-6959

State Fair Area Vo-Tech

Sedalia, MO 65301-2199
660-530-5800, ext. 255

State Fair Community College

Sedalia, MO 65301-2199
660-530-2800, ext. 217

Tri-County Technical School

Eldon, MO 65026-1594
573-392-8060

University of Missouri: Columbia

Columbia, MO 65211
573-882-2121

Warrensburg Area Vo-Tech

Warrensburg, MO 64093-2019
660-747-2283

The following military branches offer training opportunities for this occupation. Please refer to the resource pages at the front of this book for recruitment contact information:

U.S. Marine Corps



Natural Resources/Agriculture



Life Scientists

Zoologist

Studies the origin, life history, habits, life processes, diseases, growth, development, genetics, and distribution of animals. May specialize in the study of one certain animal group, such as fish, birds, mammals, reptiles, etc.

Personal Skills

Personal skills include handling many changing duties and making judgments and decisions.

Physical Skills

Physical activities include reaching, using hands and fingers, and seeing clearly up close.

Suggested H.S. Coursework & Activities

Art, Biology, Foreign Language, Geometry, Keyboarding, Language Arts, Social Studies, Chemistry, Intermediate Algebra, Word Processing, Advanced Algebra and Trigonometry, Animal Science and Technology, Physiology, Applied Biology, Wildlife Biology, Zoology

Continuing Education

Five or more years university including professional and graduate degrees. Depending on the level of research performed, a master's degree is sufficient. Jobs in collegiate teaching, independent research, and administrative positions, a Ph.D. is necessary.

Related Post-Secondary Programs

Zoology
Pathology, Human & Animal

Salary Range

Nationally, the middle 50% of all workers earn between \$33,717 and \$63,190.
The middle range of wages for experienced workers in Missouri:
from \$36,109 to \$72,072
Average hourly wage: \$25.84

Missouri Job Outlook

Employment is projected to increase from 1,008 in 1994 to 1,218 in 2005. It is estimated that 41 job openings will be created annually by growth and persons leaving the labor force.

Related Occupations

Missouri Post-Secondary Opportunities

Clinton Technical School

Clinton, MO 64735
660-885-6101

Northwest Missouri State University

Maryville, MO 64468-6001
660-562-1212

St. Louis University

St. Louis, MO 63103-2097
314-977-2222

State Fair Area Vo-Tech

Sedalia, MO 65301-2199
660-530-5800, ext. 255

State Fair Community College

Sedalia, MO 65301-2199
660-530-2800, ext. 217

University of Missouri: Columbia

Columbia, MO 65211
573-882-2121

Guided Occupational Access Leading to Success

Missouri Post-Secondary Opportunities (continued)



Natural Resources/Agriculture



Physical Scientists

Astronomer

Uses the principles of physics and mathematics to learn about the fundamental nature of the universe, including the sun, moon, planets, stars, and galaxies. Applies knowledge to problems in navigation and space flight. Performs research, analyzes large quantities of data, and writes scientific papers or reports on findings.

Personal Skills

Personal skills include handling many changing duties, making judgments and decisions, and meeting strict standards.

Physical Skills

Physical activities include using hands, seeing clearly up close, and focusing eyes.

Suggested H.S. Coursework & Activities

Art, Computer Science/Studies, Foreign Language, Geometry, Keyboarding, Physical/Earth Science, Astronomy, Biology, Consumer Health, Intermediate Algebra, Advanced Algebra and Trigonometry, Physics, Applied Calculus, Applied Chemistry, Applied Physics

Continuing Education

Five or more years university including professional and graduate degree. The Ph.D. is the usual requirement for a job in astronomy. A bachelor's or master's degree is sufficient for employment in a planetarium or to assist in research.

Related Post-Secondary Programs

Astronomy
Astrophysics
Earth & Planetary Sciences

Salary Range

Nationally, the middle 50% of all workers earn between \$55,578 and \$89,773.

Missouri Job Outlook

Employment is projected to decrease from 59 in 1994 to 57 in 2005. It is estimated that less than 10 workers will be needed annually to replace those leaving the labor force.

Related Occupations

Missouri Post-Secondary Opportunities

Central Missouri State University
Warrensburg, MO 64093
660-543-4111

Northwest Missouri State University
Maryville, MO 64468-6001
660-562-1212

St. Charles County Comm. College
St. Peters, MO 63376
314-922-8273

St. Louis University
St. Louis, MO 63103-2097
314-977-2222

State Fair Community College
Sedalia, MO 65301-2199
660-530-2800, ext. 217

University of Missouri: Kansas City
Kansas City, MO 64110-2499
816-235-1000

University of Missouri: Rolla
Rolla, MO 65409-0910
573-341-4111

Washington University
St. Louis, MO 63130-4899
314-935-5000

Guided Occupational Access Leading to Success

Missouri Post-Secondary Opportunities (continued)



Natural Resources/Agriculture



Physical Scientists

Chemist

Searches for and puts to practical use new knowledge about chemicals. Often works in research and development. In basic research, investigates the properties, composition, and structure of matter and the laws that govern the combination of elements and reactions of substances. In applied research and development, they create new products and processes or improve existing ones, often using knowledge gained from basic research.

Personal Skills

Personal skills include handling many changing duties, taking responsibility, dealing with people, making judgments and decisions, and meeting strict standards.

Physical Skills

Physical skills include reaching, using hands, using fingers, talking, hearing, seeing clearly up close, judging depth and distance, focusing eyes, and seeing color differences.

Suggested H.S. Coursework & Activities

Art, Computer Science/Studies, Foreign Language, Geometry, Keyboarding, Physical/Earth Sciences, Consumer Health, Intermediate Algebra, Physics, Advanced Algebra and Trigonometry, Applied Biology, Chemistry, Applied Calculus, Applied Chemistry, Scientific Techniques, Sociology/Psychology

Continuing Education

Undergraduate degree in chemistry or related discipline. Most research jobs require a graduate degree and college teaching jobs require a doctoral degree.

Related Post-Secondary Programs

Chemistry
Analytical Chemistry
Inorganic Chemistry
Organic Chemistry
Medicinal/Pharmaceutical Chemistry

Physical & Theoretical Chemistry
Polymer Chemistry
Military (Officer)

Salary Range

Nationally, the middle 50% of all workers earn between \$32,552 and \$65,208.
The middle range of wages for experienced workers in Missouri:
from \$32,365 to \$57,845
Average hourly wage: \$21.32

Missouri Job Outlook

Employment is projected to increase from 1,473 in 1994 to 1,619 in 2005. It is estimated that 45 job openings will be created annually by growth and persons leaving the labor force.

Related Occupations

Chemical Laboratory Chief
Food Chemist
Laboratory Supervisor

Missouri Post-Secondary Opportunities

Avila College
Kansas City, MO 64145-1698
816-942-8400

Central Methodist College
Fayette, MO 65248-1198
660-248-3391

Central Missouri State University
Warrensburg, MO 64093
660-543-4111

College of the Ozarks
Point Lookout, MO 65726
417-334-6411

Culver-Stockton College
Canton, MO 63435-1299
573-231-6000

Drury College
Springfield, MO 65802-3791
417-873-7879

Evangel University
Springfield, MO 65802-2191
417-865-2811

Lincoln University
Jefferson City, MO 65102
573-681-5000

Lindenwood University
St. Charles, MO 63301-1695
636-949-2000

Longview Community College
Lee's Summit, MO 64081-2105
816-672-2000

Maple Woods Community College
Kansas City, MO 64156-1299
816-437-3000

Maryville University
St. Louis, MO 63141-7299
314-529-9300

Chemist

Missouri Post-Secondary Opportunities (continued)

Missouri Baptist College
St. Louis, MO 63141-8698
314-434-1115

Missouri Southern State College
Joplin, MO 64801-1595
417-625-9300

Missouri Western State College
St. Joseph, MO 64507-2294
816-271-4200

Northwest Missouri State University
Maryville, MO 64468-6001
660-562-1212

Park College
Parkville, MO 64152-4358
816-741-2000

Penn Valley Community College
Kansas City, MO 64111
816-759-4000

Rockhurst University
Kansas City, MO 64110-2561
816-501-4000

St. Charles County Comm. College
St. Peters, MO 63376
314-922-8273

St. Louis University
St. Louis, MO 63103-2097
314-977-2222

Southeast Missouri State University
Cape Girardeau, MO 63701-4799
573-651-2000

Southwest Baptist University
Bolivar, MO 65613-2597
417-328-5281

Southwest Missouri State University
Springfield, MO 65804-0094
417-836-5000

State Fair Community College
Sedalia, MO 65301-2199
660-530-2800, ext. 217

Truman State University
Kirksville, MO 63501-4221
660-785-4000

University of Missouri: Columbia
Columbia, MO 65211
573-882-2121

University of Missouri: Kansas City
Kansas City, MO 64110-2499
816-235-1000

University of Missouri: Rolla
Rolla, MO 65409-0910
573-341-4111

University of Missouri: St. Louis
St. Louis, MO 63121-4499
314-516-5000

Washington University
St. Louis, MO 63130-4899
314-935-5000

Westminster College
Fulton, MO 65251-1299
573-642-3361

William Jewell College
Liberty, MO 64068-1843
816-781-7700

The following military branches offer training opportunities for this occupation. Please refer to the resource pages at the front of this book for recruitment contact information:

U.S. Army
U.S. Navy



Natural Resources/Agriculture



Physical Scientists

Geologist

Guided Occupational Access Leading to Success

Studies the structure, makeup, and history of the earth's crust. Studies the air, water, gas, and oil supplies within the earth. Examines surface rocks and drills for rock cores to find out the arrangement of the rocks below the earth's surface. Identifies rocks and minerals, conducts field surveys, and draws maps. Takes measurements and records data. Helps predict earthquakes and find oil and ore deposits. Some teach or do research.

Personal Skills

Personal skills include handling many changing duties, taking responsibility, making judgments and decisions, and meeting strict standards.

Physical Skills

Physical skills include reaching, using hands and fingers, seeing clearly up close, judging depth and distance, focusing eyes, and seeing color differences.

Suggested H.S. Coursework & Activities

Art, Biology, Foreign Language, Geometry, Keyboarding, Chemistry, Intermediate Algebra, Word Processing, Advanced Algebra and Trigonometry, Physics, Applied Chemistry, Geology, Scientific Techniques

Continuing Education

Undergraduate degree with further specialization. Better jobs with good advancement potential usually require at least a master's degree in geology. To teach on the college or university level, a Ph.D. is usually required.

Related Post-Secondary Programs

Geological Engineering	Geological & Related Sciences
Geology	Geography
Geochemistry	
Geophysics & Seismology	
Paleontology	

Salary Range

Nationally, the middle 50% of all workers earn between \$38,626 and \$77,938.
The middle range of wages for experienced workers in Missouri:
from \$35,589 to \$55,370
Average hourly wage: \$21.71

Missouri Job Outlook

Employment is projected to increase from 231 in 1994 to 291 in 2005. It is estimated that 10 job openings will be created annually by growth and persons leaving the labor force.

Related Occupations

Geophysical Prospector	Prospector
Mineralogist	Soils Engineer
Paleontologist	
Petroleum Geologist	
Petrologist	

Missouri Post-Secondary Opportunities

Central Missouri State University
Warrensburg, MO 64093
660-543-4111

East Central College
Union, MO 63084-0529
636-583-5193

Northwest Missouri State University
Maryville, MO 64468-6001
660-562-1212

St. Charles County Comm. College
St. Peters, MO 63376
314-922-8273

St. Louis University
St. Louis, MO 63103-2097
314-977-2222

Southeast Missouri State University
Cape Girardeau, MO 63701-4799
573-651-2000

Southwest Missouri State University
Springfield, MO 65804-0094
417-836-5000

State Fair Community College
Sedalia, MO 65301-2199
660-530-2800, ext. 217

University of Missouri: Columbia
Columbia, MO 65211
573-882-2121

University of Missouri: Kansas City
Kansas City, MO 64110-2499
816-235-1000

University of Missouri: Rolla
Rolla, MO 65409-0910
573-341-4111

Washington University
St. Louis, MO 63130-4899
314-935-5000

Missouri Post-Secondary Opportunities (continued)



Meteorologist

Studies the atmosphere to predict weather conditions. Studies and records weather patterns. Develops ways to make more accurate weather forecasts. Prepares special forecasts for airplane pilots, shop captains, and farmers.

Personal Skills

Personal skills include dealing with people, making judgments and decisions, and meeting strict standards.

Physical Skills

Physical skills include using hands, talking, seeing clearly up close, and using field of vision.

Suggested H.S. Coursework & Activities

Art, Computer Science/Studies, Foreign Language, Geometry, Keyboarding, Physical/Earth Sciences, Social Studies, Biology, Consumer Health, Intermediate Algebra, Advanced Algebra and Trigonometry, Physics, Scientific Techniques, Applied Calculus, Applied Physics, Sociology/Psychology

Continuing Education

Five or more years university including professional and graduate degree. For an entry level meteorologist position, a bachelor's degree with a major in meteorology or a closely related field is the minimum requirement. A graduate degree is required for most research and development jobs and to increase advancement opportunities.

Related Post-Secondary Programs

Atmospheric Sciences & Meteorology
Military (Officer)

Salary Range

Nationally, the middle 50% of all workers earn between \$37,024 and \$73,133.
The middle range of wages for experienced workers in Missouri:
from \$38,834 to \$72,259
Average hourly wage: \$25.07

Missouri Job Outlook

Employment is projected to decrease from 134 in 1994 to 128 in 2005. Less than 10 job openings are expected to be created annually by growth and persons leaving the labor force.

Related Occupations

Missouri Post-Secondary Opportunities

St. Louis University
St. Louis, MO 63103-2097
314-977-2222

University of Missouri: Columbia
Columbia, MO 65211
573-882-2121

The following military branches offer training opportunities for this occupation. Please refer to the resource pages at the front of this book for recruitment contact information:

Missouri Air National Guard
U.S. Navy

Missouri Post-Secondary Opportunities (continued)